DIALOG SEARCH.....

```
s (virtual(2w)router?)
       1855888    VIRTUAL
        555373    ROUTER?
S2        3832    S (VIRTUAL(2W)ROUTER?)


?   s s1 and (pipelin? (4w)router?)
             6    S1
       2271731    PIPELIN?
        555373    ROUTER?
          1216    PIPELIN?(4W)ROUTER?
S3           0    S S1 AND (PIPELIN? (4W)ROUTER?)


?   S S2 AND (PIPELIN? (4W)ROUT?)
Processing
Processing
          3832    S2
       2271731    PIPELIN?
       6191752    ROUT?
         18852    PIPELIN?(4W)ROUT?
S4          14    S S2 AND (PIPELIN? (4W)ROUT?)


?   s s4 not py>2002
Processing
Processing
Processing
Processing
Processing
Processing
Processing
            14    S4
      88007358    PY>2002
S5          11    S S4 NOT PY>2002


?   TYPE S5/3,K/ALL
```

5/3,K/1 (Item 1 from file: 16) Links

06970027   Supplier Number: 58928060 (USE FORMAT 7 FOR FULLTEXT)

Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)
Musich, Paula
PC Week , p 90
Jan 24 , 2000
Language: English   Record Type: Fulltext
Article Type: Product Announcement
Document Type: Tabloid ; General Trade
Word Count: 467
-

 The portfolio is built on existing Lucent products, particularly its
customer- premises equipment-based virtual private network
routers, firewall-based VPN gateways, VPN clients and LSMS
(Lucent
Secur ity Management Server) central security...

...provide site-to-site VPN services at T-1 speeds. It also
integrates the
Ascend Pipeline and SuperPipe remote access routers.
       Lucent expanded on that initiative with new releases of the
Pipeline
and SuperPipe VPN software...

...0 Integrates LSMS security software, Lucent's IPSec client and
Xedia
Access Point routersIntegrates the Ascend Pipeline and SuperPipe
remote access routersAdds security policy management to the
Pipeline
and SuperPipe product linesPipeline and SuperAdds support for
standard...

5/3,K/2 (Item 1 from file: 47) Links
Gale Group Magazine DB(TM)
05512295   Supplier Number: 58928060 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula
PC Week , 90
Jan 24 , 2000
Document Type: Product Announcement
ISSN: 0740-1604
Language: English   Record Type: Fulltext
Word Count: 491   Line Count: 00045

 The portfolio is built on existing Lucent products, particularly its
customer- premises equipment-based virtual private network
routers, firewall-based VPN gateways, VPN clients and LSMS (Lucent
Secur ity Management Server) central security...
...provide site-to-site VPN services at T-1 speeds. It also integrates the
Ascend Pipeline and SuperPipe remote access routers.
      Lucent expanded on that initiative with new releases of the Pipeline
and SuperPipe VPN software...

...0Integrates LSMS security software, Lucent's IPSec client and Xedia
Access Point routersIntegrates the Ascend Pipeline and SuperPipe
remote access routersAdds security policy management to the Pipeline
and SuperPipe product linesPipeline and SuperAdds support for
standard...

5/3,K/3 (Item 1 from file: 88) <u>Links</u>
06192506   Supplier Number: 89073222
A delay model for router microarchitectures.(includes related article titled "What Is Flow
Control") (Special Issue: Hot Interconnects VIII Symposium)(Cover Story)
Peh, Li-Shiuan; Dally, William J.
IEEE Micro , 21 , 1 , 26(9)
Jan-Feb , 2001
Document Type: Cover Story
ISSN: 0272-1732
Language: English   Record Type: Abstract

Abstract: A router delay model is described that takes the pipelined nature of router
architecture into account. The model is used for comparing the performance of wormhole and
virtual-circuit routers.
Abstract:

5/3,K/4 (Item 2 from file: 88) <u>Links</u>

05041675   Supplier Number: 53867883
Wormhole Routing Techniques for Directly Connected Multicomputer Systems.
MOHAPATRA, PRASANT
ACM Computing Surveys , 30 , 3 , 374(1)
Sept , 1998
ISSN: 0360-0300
Language: English   Record Type: Fulltext; Abstract
Word Count: 19309   Line Count: 01549

...because of the multiple and simultaneous resource possession
as well as
the chained blockings during pipelined routing. However,
approximate analytical models based on simplifying assumptions
can give
reasonable performance estimates.(1)
      5...the opt-y algorithm is deadlock-free and optimal with
respect to
the number of virtual channels per router and number of
routing restrictions on the virtual channels. The optimally fully
adaptive
routing algorithm...

5/3,K/5 (Item 1 from file: 148) <u>Links</u>
GALE GROUP TRADE & INDUSTRY DB

11692214   Supplier Number: 58928060 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies, low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula
PC Week , 90
Jan 24 , 2000
Document Type: Product Announcement
ISSN: 0740-1604
Language: English
Record Type: Fulltext
Word Count: 491   Line Count: 00045

 The portfolio is built on existing Lucent products, particularly
its
customer- premises equipment-based virtual private network
routers, firewall-based VPN gateways, VPN clients and LSMS
(Lucent
Secur ity Management Server) central security...

...provide site-to-site VPN services at T-1 speeds. It also
integrates the
Ascend Pipeline and SuperPipe remote access routers.
      Lucent expanded on that initiative with new releases of the
Pipeline
and SuperPipe VPN software...

...0Integrates LSMS security software, Lucent's IPSec client and
Xedia
Access Point routersIntegrates the Ascend Pipeline and SuperPipe
remote access routersAdds security policy management to the
Pipeline
and SuperPipe product linesPipeline and SuperAdds support for
standard...

5/3,K/6 (Item 1 from file: 275) Links
Gale Group Computer DB(TM)

02365839   Supplier Number: 58928060 (Use Format 7 Or 9 For FULL TEXT)
Lucent clarifies VPN offerings : Expands initiative with pair of acquired technologies,
low-end hardware.(Ascend Communications/Xedia Corp)(Product Announcement)

Musich, Paula
PC Week , 90
Jan 24 , 2000
Document Type: Product Announcement
ISSN: 0740-1604
Language: English   Record Type: Fulltext
Word Count: 491   Line Count: 00045

 The portfolio is built on existing Lucent products, particularly
its
customer- premises equipment-based virtual private network
routers, firewall-based VPN gateways, VPN clients and LSMS
(Lucent
Secur ity Management Server) central security...
...provide site-to-site VPN services at T-1 speeds. It also
integrates the
Ascend Pipeline and SuperPipe remote access routers.
      Lucent expanded on that initiative with new releases of the
Pipeline
and SuperPipe VPN software...

...0Integrates LSMS security software, Lucent's IPSec client and
Xedia
Access Point routersIntegrates the Ascend Pipeline and SuperPipe
remote access routersAdds security policy management to the
Pipeline
and SuperPipe product linesPipeline and SuperAdds support for
standard...

5/3K/7 (Item 1 from file: 348) <u>Links</u>
   Fulltext available through: <u>Order File History</u>
EUROPEAN PATENTS
01057641
ROUTER TABLE LOOKUP MECHANISM
MECHANISMUS ZUM NACHSCHLAGEN EINER ROUTERTABELLE
MECANISME A CONSULTATION DE TABLE DE ROUTEUR

Patent Assignee:

- CRAY RESEARCH, INC.; (578485)
   655A Lone Oak Drive; Eagan, Minnesota 55121; (US)
   (Proprietor designated states: all)

Inventor:

- PASSINT, Randal, S.
   9550 167 Street; Chippewa Falls, WI 54729; (US)

- GALLES, Michael, B.
   1112 South Springer Road; Los Altos, CA 94024; (US)

- THORSON, Greg
   1119 Sweet Water Close; Altoona, WI 54720; (US)

Legal Representative:

- Beresford, Keith Denis Lewis et al (28274)
   2-5 Warwick Court High Holborn; London WC1R 5DH; (GB)

	Country	Number	Kind	Date	
Patent	EP	1032887	A1	20000906	(Basic)
	EP	1032887	B1	20020306	
	WO	9926163		19990527	
Application	EP	98959468		19981116	
	WO	98US24468		19981116	
Priorities	US	971587		19971117	

Designated States:
AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LI; LU; MC; NL; PT; SE;

International Patent Class (V7): G06F-015/173
NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count

CLAIMS B	(English)	200210	1166
CLAIMS B	(German)	200210	1035
CLAIMS B	(French)	200210	1356
SPEC B	(English)	200210	10611
Total Word Count (Document A) 0			
Total Word Count (Document B) 14168			
Total Word Count (All Documents) 14168			

Specification: ...direction, and provide a new message direction via an exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/8 (Item 2 from file: 348) Links
  Fulltext available through: Order File History
EUROPEAN PATENTS

01053793
VIRTUAL CHANNEL ASSIGNMENT IN LARGE TORUS SYSTEMS
ZUWEISUNG VON VIRTUELLEN KANALEN IN GROSSEN TORUSSYSTEMEN
AFFECTATION DE CANAUX VIRTUELS DANS DES SYSTEMES PRESENTANT DES
TORES IMPORTANTES

Patent Assignee:

• CRAY RESEARCH, INC.; (578485)
    655A Lone Oak Drive; Eagan, Minnesota 55121; (US)
    (Proprietor designated states: all)

Inventor:

• PASSINT, Randal, S.
    9550 167 Street; Chippewa Falls, WI 54729; (US)

• THORSON, Gregory M.
    1119 Sweet Water Close; Altoona, WI 54720; (US)

• GALLES, Michael, B.
    1112 South Springer Road; Los Altos, CA 94024; (US)

Legal Representative:

• Beresford, Keith Denis Lewis et al (28273)
    BERESFORD & Co. 2-5 Warwick Court, High Holborn; London WC1R 5DH; (GB)

	Country	Number	Kind	Date	
Patent	EP	1031096	A1	20000830	(Basic)
	EP	1031096	B1	20020724	
	WO	9926162		19990527	
Application	EP	98957995		19981116	
	WO	98US24422		19981116	
Priorities	US	971591		19971117	

Designated States:
DE; FR; GB;

International Patent Class (V7): G06F-015/173
NOTE: No A-document published by EPO

Type	Pub. Date	Kind	Text

Publication: English
Procedural: English
Application: English

Available Text	Language	Update	Word Count

CLAIMS B	(English)	200230	1224
CLAIMS B	(German)	200230	1012
CLAIMS B	(French)	200230	1545
SPEC B	(English)	200230	10726
Total Word Count (Document A) 0			
Total Word Count (Document B) 14507			
Total Word Count (All Documents) 14507			

Specification: ...direction, and provide a new message direction via an exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/9 (Item 1 from file: 349) <u>Links</u>
  Fulltext available through: <u>Order File History</u>
PCT FULLTEXT

00495077
HYBRID HYPERCUBE/TORUS ARCHITECTURE
ARCHITECTURE HYBRIDE HYPERCUBE/TORIQUE

Patent Applicant/Patent Assignee:

• CRAY RESEARCH INC

Inventor(s):

• PASSINT Randal S

• THORSON Greg

• GALLES Michael B

	Country	Number	Kind	Date
Patent	WO	9926429	A2	19990527
Application	WO	98US24493		19981117
Priorities	US	97971588		19971117

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)
JP, AT, BE, CH, CY, DE, DK, ES, FI, FR,
GB, GR, IE, IT, LU, MC, NL, PT, SE

Publication Language: English
Filing Language:
Fulltext word count: 13693

Detailed Description:

...provide a new message direction via an I 0 exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four micropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

00494811
ROUTER TABLE LOOKUP MECHANISM
MECANISME A CONSULTATION DE TABLE DE ROUTEUR

Patent Applicant/Patent Assignee:

• CRAY RESEARCH INC

Inventor(s):

• PASSINT Randal S

• GALLES Michael B

• THORSON Greg

	Country	Number	Kind	Date
Patent	WO	9926163	A1	19990527
Application	WO	98US24468		19981116
Priorities	US	97971587		19971117

Designated States: (Protection type is "Patent" unless otherwise stated - for applications prior to 2004)
AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
GR, IE, IT, LU, MC, NL, PT, SE

Publication Language: English
Filing Language:
Fulltext word count: 12179

Detailed Description:

...provide a new message direction via an 1 5 exit port ID. Since routing is pipelined with link arbitration, the routing tables must include instructions as to how to traverse to the next router chip.

For...continuous. For example, after router chip 50 sends four inicropackets across a physical link on virtual channel 0, router chip 50 can choose to send any number of packets on virtual channels 1-3...

5/3K/11 (Item 3 from file: 349) <u>Links</u>
  Fulltext available through: <u>Order File History</u>
PCT FULLTEXT

00494810
VIRTUAL CHANNEL ASSIGNMENT IN LARGE TORUS SYSTEMS
AFFECTATION DE CANAUX VIRTUELS DANS DES SYSTEMES PRESENTANT DES
TORES IMPORTANTES

Patent Applicant/Patent Assignee:

• CRAY RESEARCH INC

Inventor(s):

• PASSINT Randal S

• THORSON Greg

• GALLES Michael B

	Country	Number	Kind	Date
Patent	WO	9926162	A1	19990527
Application	WO	98US24422		19981116
Priorities	US	97971591		19971117

Designated States: (Protection type is "Patent" unless otherwise stated - for applications
prior to 2004)
AT, BE, CH, CY, DE, DK, ES, FI, FR, GB,
GR, IE, IT, LU, MC, NL, PT, SE

Publication Language: English
Filing Language:
Fulltext word count: 12558

Detailed Description:

...direction, and provide a new message direction via an exit port ID. Since routing is
pipelined with link arbitration, the routing tables I 0 must include instructions as to how to
traverse to the next router...continuous. For example, after router chip 50 sends four
micropackets across a physical link on virtual channel 0, router chip 50 can choose to send
any number of packets on virtual channels 1-3...

?